

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization
International Bureau



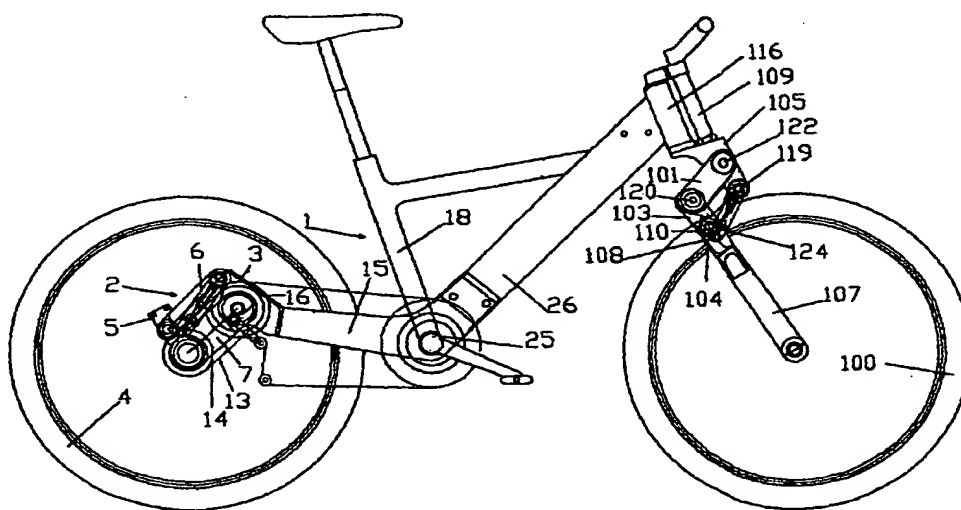
(43) International Publication Date
14 December 2000 (14.12.2000)

PCT

(10) International Publication Number
WO 00/75004 A1

- (51) International Patent Classification⁷: **B62K 25/24, 25/56**
- (21) International Application Number: **PCT/NO00/00194**
- (22) International Filing Date: **5 June 2000 (05.06.2000)**
- (25) Filing Language: **Norwegian**
- (26) Publication Language: **English**
- (30) Priority Data:
19992744 4 June 1999 (04.06.1999) NO
19992745 4 June 1999 (04.06.1999) NO
- (71) Applicant and
(72) Inventor: **HALS, Cato [NO/NO]; Sørbråtveien 34, N-0891 Oslo (NO).**
- (74) Agent: **BRYN & AARFLOT AS; P.O. Box 449 Sentrum, N-0104 Oslo (NO).**
- (81) Designated States (*national*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, DZ, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW.
- (84) Designated States (*regional*): ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).
- Published:**
— *With international search report.*
- For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

(54) Title: **ALL-SUSPENSION BICYCLE FRAME WITH ISOLATED DRIVE GEAR**



(57) Abstract: A frame construction for a two-wheeled vehicle, preferably a bicycle, exhibits a front fork (107) and/or rear chainstays (15) with suspension devices (101, 102, 112; 2) with a parallelogram structure. The suspension devices are equipped with means (108, 110; 8, 9, 19) for adjustable setting of effective spring stiffness. The fork and chainstays are preferably of the one-legged, one-sided type, i.e. equipped with but one fork leg (107; 15). Power transmission to the rear wheel (4) is effected via an extra chain (13) from the freewheel (16) at the end of the chainstays (15), to a cogwheel (14) on the wheel hub.